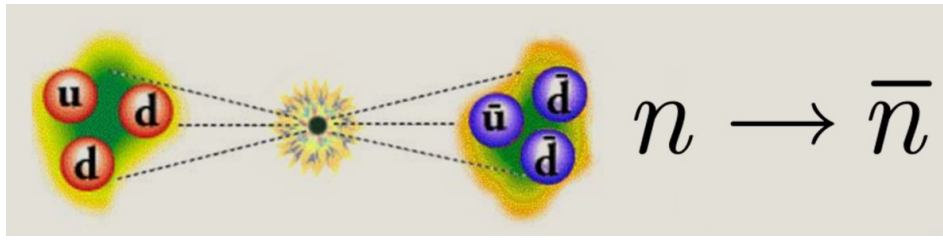


Theoretical Innovations for Future Experiments Regarding Baryon Number Violation, Part 1



Contribution ID: 36

Type: **Oral Presentation**

Searches for scalars that carry B or L, taken broadly: whither and wherefore

Thursday, August 6, 2020 10:00 AM (30 minutes)

In many models of new physics, the expected rate of processes that break baryon number by two units rests on the features of a poorly known scalar sector, whose members can carry B or L quantum numbers. Thus the BNV discovery prospects in these channels are controlled by the extent to which the associated scalars are excluded by experiments. Working in the context of minimal scalar models, I will survey and discuss the existing constraints and note what windows of opportunity remain for the discovery of light new scalars. With these, new experiments become tenable, and I emphasize the complementarity of these to other ongoing efforts and their broader implications.

Contribution Title

Searches for scalars that carry B or L, taken broadly: whither and wherefore

Primary author: GARDNER, Susan (U Kentucky)

Presenter: GARDNER, Susan (U Kentucky)